Hewitt

Installing and Configuring The Web Client and Server Events 5.2

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Contents

PART 1

Installing The Web Client 5.2

In This Section

CHAPTER 1

Installing the Web Client Server

In This Chapter

Introduction

This chapter provides detailed instructions for installing and configuring the components of the Web Client and ServerEvents on the Web Server. This is a technical chapter aimed at system administrators.

Deliverables

The following is included:

1	CD-ROM labeled eCyborg Web Client 5.2
1	Installing and Configuring The Web Client and Server Events 5.2 (this guide)

☞ *Refer to Directory Contents for detailed information on scripts used and programs installed during the installation and the purposes they serve.*

Web Client considerations

When setting up the Web Client Server, you should consider the following:

Installing the Web Application Server

The only option for installing the Web Application Server:

- Installing The Web Application on a Windows server utilizing IIS and using this to access The Solution Series Server on UNIX, Windows, or z/OS.

Running the Web Client or ServerEvents with Interactive Workforce

If you intend to install the Web Client and Interactive Workforce on the same web server, proceed as follows:

- Install JDK from the Sun website
- Install ServletExec from Solution Series media and create a ServletExec instance
- Install the Web Client or Server Events using the ServletExec instance that you created
- When you install Interactive Workforce (from the media) create a new ServletExec instance exclusively for its own use

If you already have installed the Web Client on a Windows server (running ServletExec as the Servlet Engine) and decide later to install Interactive Workforce, you need to perform the following:

- Install Interactive Workforce using a separate instance of ServletExec
- Test the Installation of the Web Client and Interactive Workforce

You could also decide to run both Interactive Workforce and Web Client using the same instance of ServletExec, however this method is NOT recommended.

The recommended method of using separate instances (one for Interactive Workforce and the other for Web Client/Server Events) will provide the capability of stopping the ServletExec instance used by one application (for example, Web Client) without affecting

the other application (Interactive Workforce). This is helpful when you need to perform maintenance without affecting the other application.

Session timeout

If a user is accessing the system via a publicly accessible client computer and they walk away from a session leaving it open, then there is a risk that someone else may come along and tamper with the data. In order to help secure the system against such tampering, you should set a Timeout to close a session after one has been inactive for an appropriate amount of time.

The duration of the timeout should be based on the implementation. For example, an implementation that is set up for employees to access the Web Client at home via the Internet should have a shorter time, while an implementation setup strictly for access over a network might have a longer time.

There is a session timeout that can be set in the Web Client software. To enable this timeout setting, open the following file:

..\ServletExec_AS\<instancename>\ServletExecData\default\eCyborg\WAR\webclient\login.jsp

and set the following parameter:

session.setMaxInactiveInterval(*xxxx*);

where *xxxx* is the number of seconds a session will remain inactive before being shut down. The default is set for 1200 seconds (20 minutes).

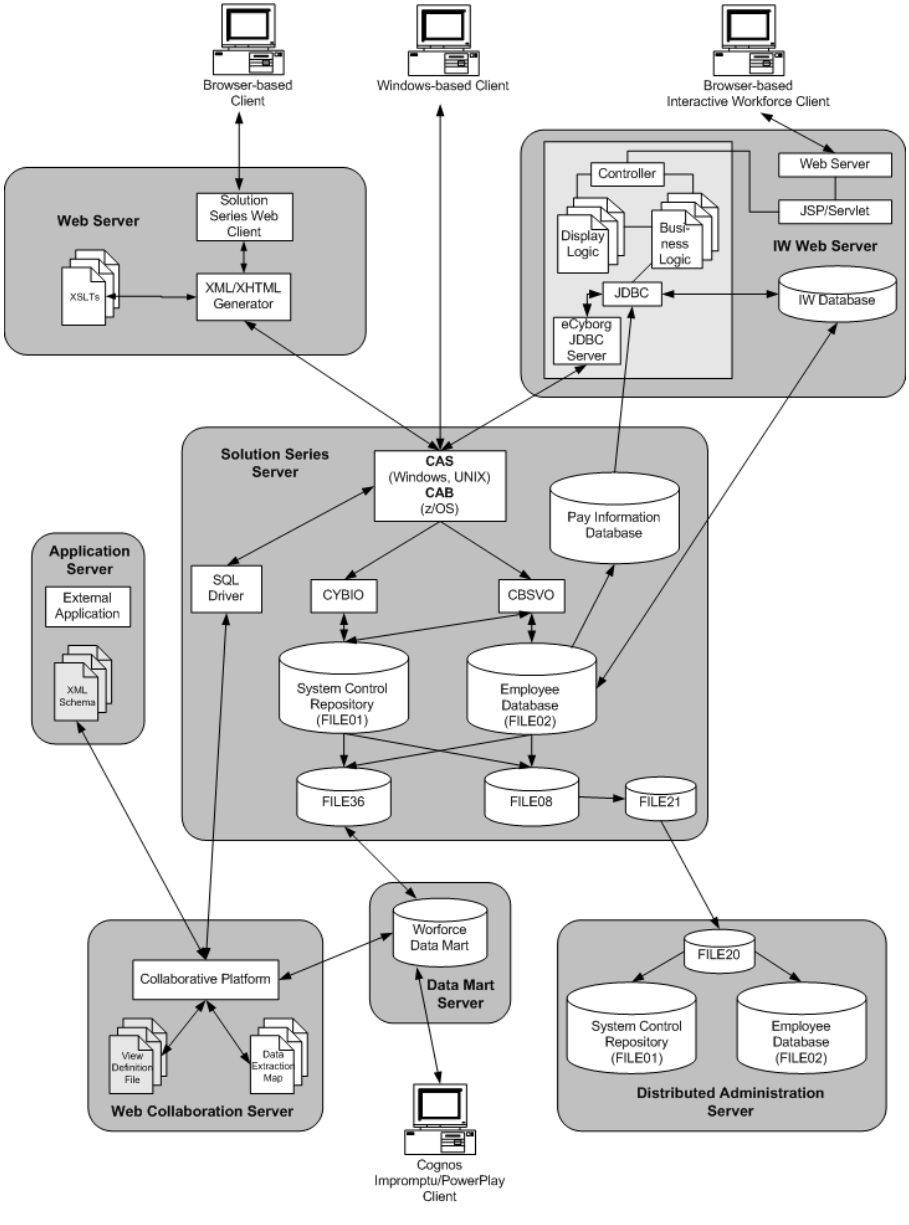
Secure Socket Layers (SSL)

If the Web Client is going to be set up for home use by employees over the Internet, it is recommended that you secure the system using Secure Socket Layers (SSL) to encrypt transmitted data. SSL can be implemented through a provider such as Verisign.

Encryption between Web Client Server and Solution Series Server

If the Web Client server resides on a different machine than the Solution Series Server, it is recommended that you encrypt the data that flows between the two.

Complete Product Installation Overview



CHAPTER 2

Installing the Web Client Server on a Windows server

In This Chapter

Install Web Client server files

Insert the CD-ROM into The Web Application Server machine. The "Getting Started" page automatically appears. Scroll through the page, then click on the following link to start the autoinstall:

Install Web Client with Admin pages

Note: *If you are installing the media using Terminal Server, the "Getting Started" page will not display. Access the CD ROM drive to view the "Getting Started" page.*

Install ServletExec

If you do not already have ServletExec installed on your machine, follow the directions below to install it. If you have ServletExec already installed on your system please Refer to Appendix A: ***Multiple installations of ServletExec*** (on page 41) for instructions on installing a new instance of ServletExec specific to your Web Client installation.

Note: *For the initial installation, ServletExec is installed in 'Unregistered' mode. While in Unregistered mode, ServletExec is limited to processing three (3) concurrent client requests. The supplied ServletExec license must be applied to allow for more than the 3 concurrent users to connect.*

1. Insert your Solution Series CD ROM

2. Click 'Install ServletExec 5.0'

On the Installation CD instructions that display, click 'Install ServletExec.'

Note: *If you are installing the media using Terminal Server, the "Getting Started" page will not display. Access the CD ROM drive to view the "Getting Started" page.*

3. Click Next

Click the Next button to continue with the install

4. Select Setup Type

Select the option 'Install a ServletExec AS Instance' and click Next to continue.

5. Click Yes

Click the Yes button to accept the License Agreement

6. Click Next to continue

Click the Next button to continue with the install

7. Choose the destination folder

It is not required but recommended that you install the application in the default directory.

C:\Program Files\New Atlanta\ServletExec AS

8. Enter Servlet Exec Instance Name

Enter a name to uniquely identify the ServletExec Application Server instance and click Next to continue.

9. Select the setup type

Select 'Microsoft IIS or PWS' setup type and click Next to continue.

10. Click OK

Click OK on the dialog indicating that ISS admin will be shut down.

11. Choose destination location for servlet adapter

Enter the path for the location of the ServletExec adapter.dll and click Next to continue.

12. Enter the port number

Enter the port number you wish this ServletExec instance to use. You may choose any port, but accepting the suggested default port is recommended.

13. Click Next to confirm installation

Click Next at the confirmation dialog to complete the installation.

14. Enter username and password

Enter the username and password for this ServletExec instance to control access to the administration pages. This is the username and password that users will be prompted to enter when attempting to access the administration pages. Click the Next button to continue with the install

15. Click Yes

In the dialog box that asks if you want to install the ServletExec instance as an NT service, click Yes.

16. Click OK

Click OK on the information dialog that appears.

17. Click Finish

Click Finish to complete the installation of ServletExec.

Unzip the Web Server .war files

Unzip the eCyborg .war files to the Windows-based Web Application Server machine. Extract the following files:

- eCyborg.war
- eCyborgHelp.war

The files should be copied into the following filepath:

..\<ServletExec install dir>\<*instancename*>\webapps\default

where <instancename> is the name of the ServletExec instance that you installed.

Configure the new instance of ServletExec

The configure the new instance, perform the following steps:

1. **Access the Services applet**
   Make the following selections:

   Start ► Settings ► Control Panel ► Administrative Tools ► Services

   The Services control panel appears.

2. **Open the ServletExec Service dialog**
   While still in the Services dialog, right-click on the appropriate instance of entry in the Services list box:

   ServletExec<Instance_Name>

   Select Properties to open the ServletExec Service dialog.

3. **Shut down newly created instance of ServletExec**
   If the service is running, select the ServletExec instance, right-click and select Stop.

4. **Select Automatic**
   Click the arrow for Startup Type, and select Automatic from the drop-down list.

5. **Click OK**

6. **Shut down and restart the World Wide Web Publishing Service**
   Select the World Wide Web Publishing Service, right-click and select Stop. The status indicates that the service is stopped. Restart the service by selecting World Wide Web Publishing Service, right clicking and selecting Start.

Start the servlet engine

Perform the following steps:

1. Access the Services applet

Access the Services control panel by making the following selections:

Start ► Settings ► Control Panel ► Administrative Tools ► Services

The Services control panel appears.

2. Restart the instance of ServletExec

Select the instance of ServletExec, right-click and select Start. When you start the servlet engine during the install, it expands the .war files to create the files needed for running the eCyborg Web Client.

In ServletExec, the eCyborg Web Client files will be expanded into the following directory:

..\SerlvetExecData\default\eCyborg\war

Important! Depending on the speed of the microprocessor in the server, it might take 15 to 20 minutes or more for the files to completely expand. Please be patient and wait for the expansion to complete before trying to access the Web Client. To ensure that the expansion is complete, you may check to see if the directories listed above have been created and populated.

Configure the environments properties file

The install files you downloaded contain web pages to help you through the process of adding environment parameters to the environments.properties file. Each page has detailed information for all the available fields.

1. Access the Web Client administrator page

On your browser, enter the URL for the web client administrator pages, for example:

http://<hostname>/eCyborg

Replace <hostname> with the name of the Web Server machine. The system displays the Web Client Administrator page.

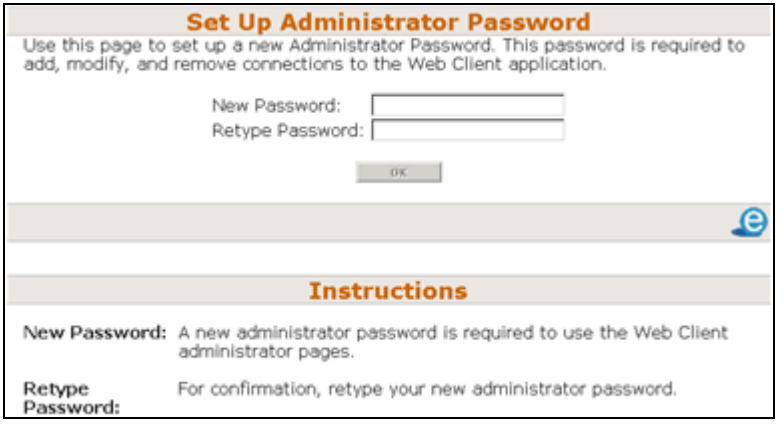
Note: *After the initial access and setup of the environment properties, you may want to replace the eCyborg.war file with the delivered alternative .war file that omits the administrator pages for security reasons. Refer to Appendix B:* **eCyborg.war file replacement** *(on page 45) for the procedure.*

2. Log onto the Web Client

Leave the Password field blank, and click Continue.

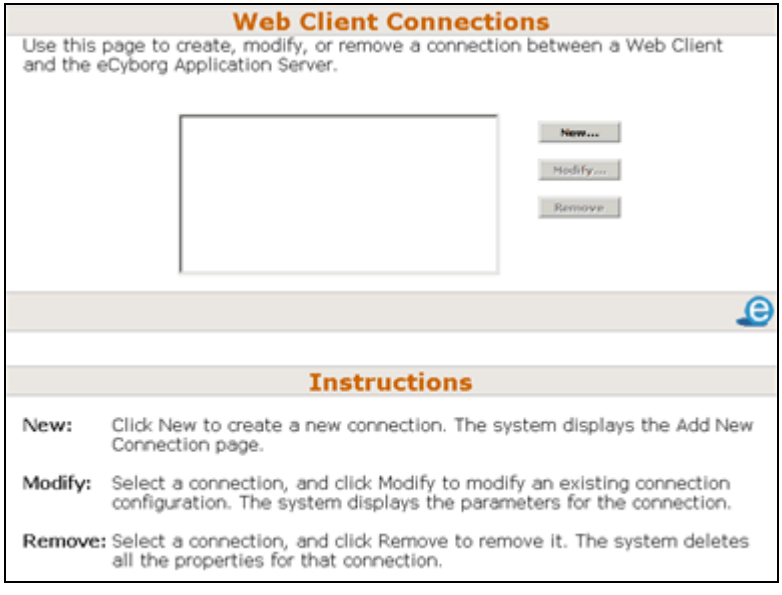
3. Change the administrator password

The first time you log on, you must change the password. Enter and confirm the new password for the web client administrator. This password is required to add, modify, and remove connections to the Web Client application. Once you have set the password, click OK.



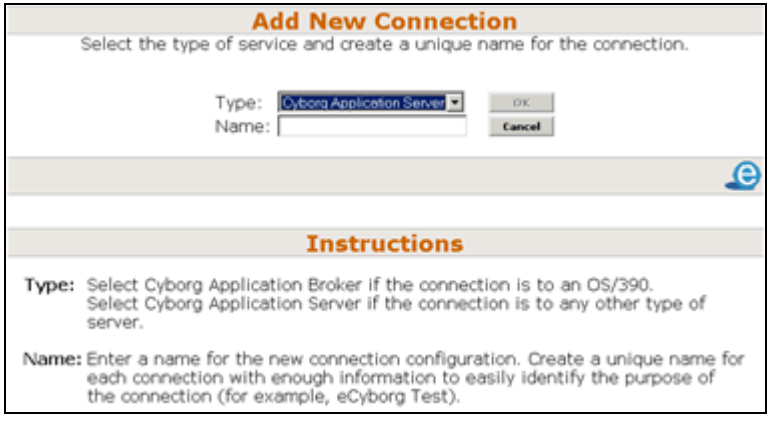
4. Create a Web Client connection

Click New to create a new Web Client Connection.



5. Select the type of service

Select Cyborg Application Broker from the drop down list if the connection is to a z/OS server. Select Cyborg Application Server from the drop down list if the connection is to any server that is not zOS.



6. Enter a name to identify the environment

Enter a name to identify the environment. The name should describe the environment you are connecting to. This name will appear on the log on page. For example:

Default=eCyborg 5.2 Default Environment

52test=eCyborg 5.2 Test Environment

52prod=eCyborg 5.2 Production Environment

7. Enter the connection properties for the Web Client connection

Enter the connection properties for the environment. The following parameters must be defined:

Parameter	Definition	Example	Value
Host	Hostname or IP address of application server	HOSTNAME	
Port	Port for CAS connections	9888	
Environment	Solution Series environment as defined in CAS	Cyborg52	

Test the Web Server

Access the Web Client from a remote PC

From another PC, access eCyborg Web Client by opening a browser and accessing the following URL:

http://<*hostname*>/eCyborg/webclient

Replace hostname with the name of the Web Server machine. For testing purposes, you may log on using the S.O. user and password.

The initial logon to the Web Client may take some time, as the system needs to set up a number of files during this first access.

Important!: Make sure you are viewing the most up-to-date information in your browser by refreshing your display regularly. Until you refresh, your browser will continue to display the current version in cache even if the information on the web server has been updated.

PART 2

Installing Server Events for Web Client 5.2

In This Section

CHAPTER 3

Installing Server Events for Web Client

In This Chapter

Introduction

This chapter provides detailed instructions for installing and configuring the Server Events functionality.

By setting up server events you can trigger letters and emails automatically from any of the Web Applications and the Windows client. Emails will be sent when generated, and letters will be queued on the server for viewing through a browser. This is a technical chapter aimed at system administrators.

Deliverables

The following is included:

1	The Solution Series 5.2 CD ROM
1	Installing and Configuring The Web Client and Server Events 5.2 (this guide)

Definition of Terms

This section is provided to explain terms used in this chapter.

Client-based event

An event that is triggered and executed via the Admin Client and not by any other client or external process.

Environments

Connections established in the Connection Editor.

Server-based event

An event that is executed by a Windows Service, not by the administrative client. These events are designed to work for all clients and use the Pending Trigger records to execute an event.

Phase 1: Install the Files

Install the files

Insert the CD-ROM into the Web Application Server machine. The Getting Started page should open automatically. Scroll through the page, then click the following link to start the AutoInstall:

Install Server Events

Note: If you are installing the media using Terminal Server, the "Getting Started" page will not display. Access the CD ROM drive to view the "Getting Started" page.

Follow the prompts to install the software. When the installation is complete, the following important files are stored:

- CybCFG.exe (Connection Editor)
- MessagingTestTool.exe (Messaging Test Tool)
- cyb.cfg (configuration master file)
- srvevent.war

Note: The Cyb.cfg file will contain all connections available to the back end service.

After configuration of the application to run any of the installed programs, execute the following:

Start ► Programs ► Solution Series 5.2 Server Events

Select the program you want to run:

- Connection Editor
- Cyborg Events
- Messaging Test Tool

Phase 2: Create and Configure Event Service User Accounts

Configure a new user account for the Server Events Service

Important!: You must be logged on to the web application server machine with an account that has administrative privileges to perform the following steps.

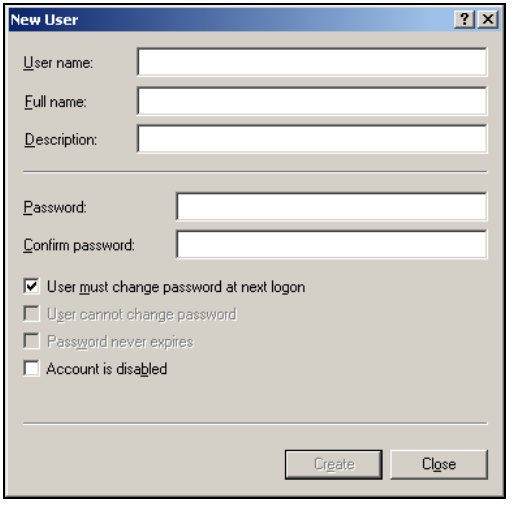
Follow these steps to configure a new user account for the Server Events Service:

1. Create a new user account

To access the New User dialog box from the Control Panel, execute the following:

Start ► Settings ► Control Panel ► Administrative Tools ► Computer Management ► Local Users and Groups ► Users

1. Right-click on Users and select New User.
   The New User dialog opens.



2. Enter the user name (for example, <eventuser>) and description.
3. Clear the 'User must change password at next logon' checkbox.
4. Check the 'Password never expires' checkbox.
5. Configure a user password.

Note: *It is important to set up a password because it will be required later by the Server Events Service. Note the use of upper and lower case in your password.*

6. Click Create on the New User dialog to establish the account. When you exit the New User dialog, the new user account appears in the Computer Management window.

2. Configure user rights for the new account

The Server Events Service requires that the new user account be granted the following right:

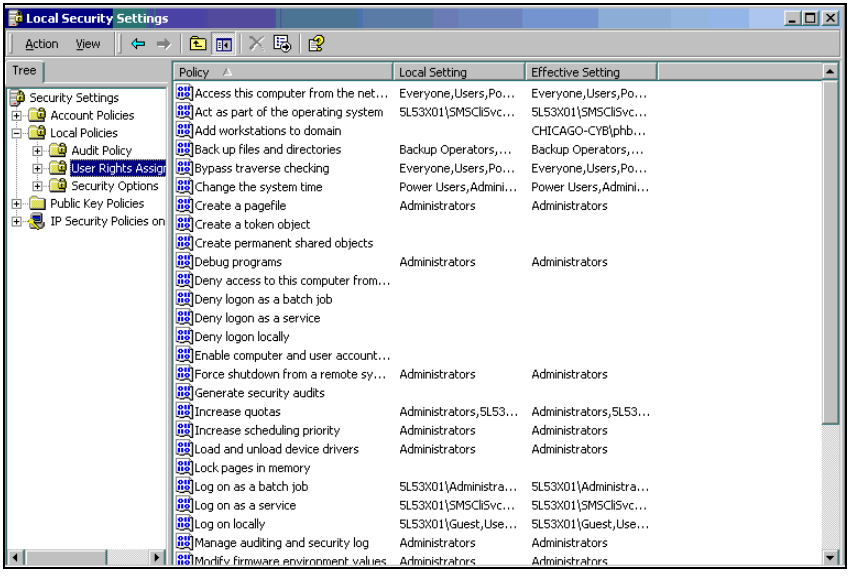
- Log on as a service

1. To grant this right, execute the following:

Start ▶ Settings ▶ Control Panel ▶ Administrative Tools ▶ Local Security Policy

2. Click the Local Policies folder, and open the User Rights Assignments folder.

The Local Security Settings window will appear similar to the following example:



3. Select the policy:

- Log on as a service

3. Right-click and select Properties...

The Local Security Policy Setting dialog opens

4. **Click Add User or Group**
5. **Click Locations and Select the local computer locations dialog**
6. **In the 'Enter the object names to select field', enter the eCyborg server events user you created**
7. **Click OK**
8. **Click Apply**

Set up user rights for the Administrative account

The Server Events Service requires that the Administrative account be granted the following right:

- Act as part of the operating system

Follow these steps to set up user rights for the Administrative account used to create the Cyborg Server Event user in Step 1 of the previous task:

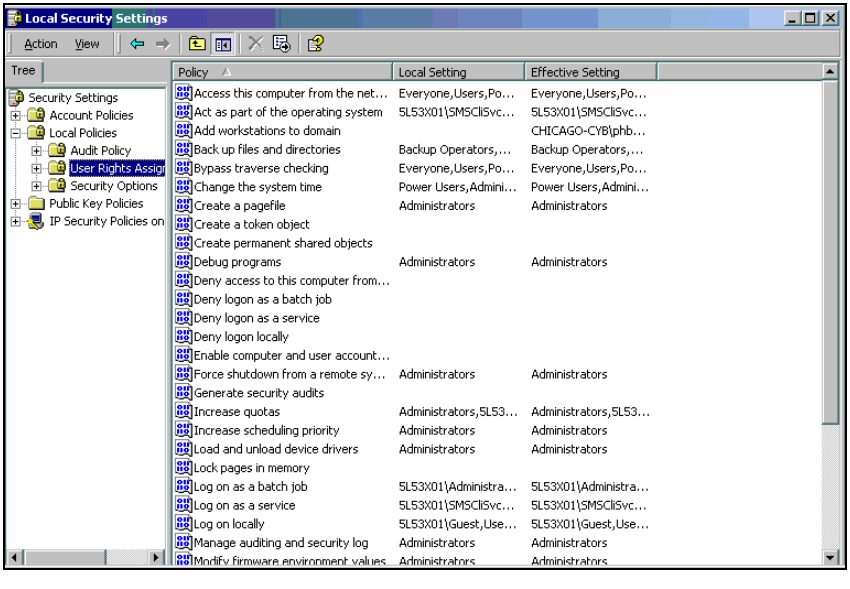
1. Access the Local Security Policies

To access the Local Security Policies, execute the following:

Start ► Settings ► Control Panel ► Administrative Tools ► Local Security Policy

2. Click the Local Policies folder and open the User Rights Assignments folder

The Local Security Settings window opens similar to the following example:



3. **Select the Act as part of the operating system policy**
4. **Right-click and select Properties...**
   The Local Security Policy Setting dialog opens.
5. **Click Add User or Group**
6. **Click Locations and select the local computer locations dialog**
7. **In the 'Enter the object names to select field' enter the eCyborg server events user you created**
8. **Click OK**
9. **Click Apply**

Phase 3: Configure Server Event Service

Log on as the Server Events User

The configuration tasks require that you log onto the server you are installing Server Events on as the Server Events service user you created in Phase 2. Use the user name and password you created.

Configure your email system

You must have an email client installed on the web application server in order to facilitate email delivery from the back end server to intended recipients. First make sure that an email system is installed on your server and perform the following step:

- verify an email account has been established and defined for your email system

If you are not sure, contact your email support team.

Email integration

The following table outlines email integration system recommendations:

Email Category	Address Book Availability	Tools/Additional software needed
MAPI (Outlook)	Yes	
SMTP	No	
Lotus Notes	Yes	If Desktop Operating System is Windows 2000: ■ Lotus Notes 5.0.10 or higher in the 5.0 series ■ Outlook 2000 If Desktop Operating System is Windows XP Professional: ■ Lotus Notes 6.x or higher in the 6.x series ■ Outlook XP or 2003 ■ Domino Access for Micro Outlook (DAMO) that matches the version of Lotus Notes version.

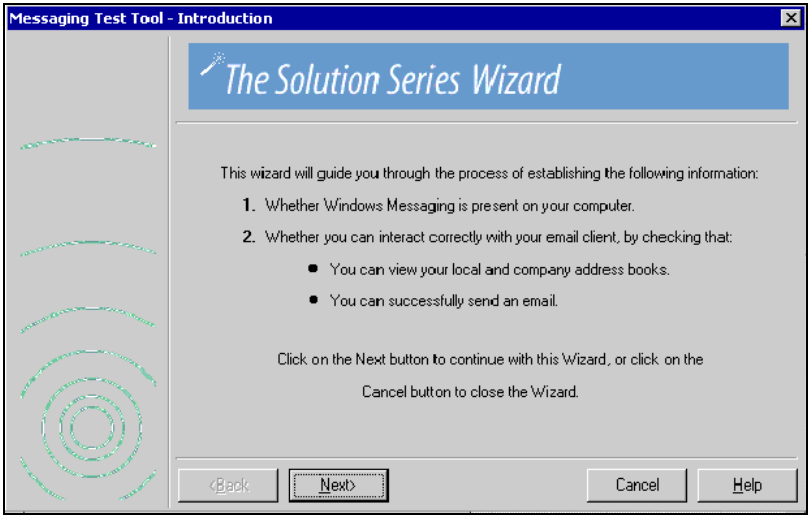
Run the Messaging Test Tool

Use the Messaging Test Tool to ensure that the Address Book dialog can be properly accessed and that an email can be sent. This is a separate program packaged with The Solution Series. Messaging is essential in order for email integration to work properly. To run the Messaging Test Tool, perform the following steps:

1. Launch the Messaging Test Tool

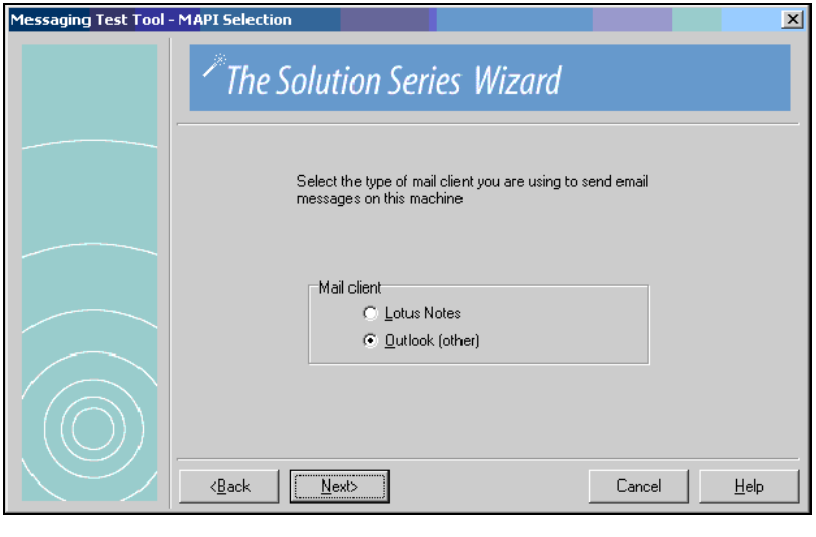
To launch the Messaging Test Tool, execute the following:

Start ▶ Programs ▶ Hewitt Associates ▶ The Solution Series 5.2 Server Events ▶ Messaging Test Tool



2. Click Next

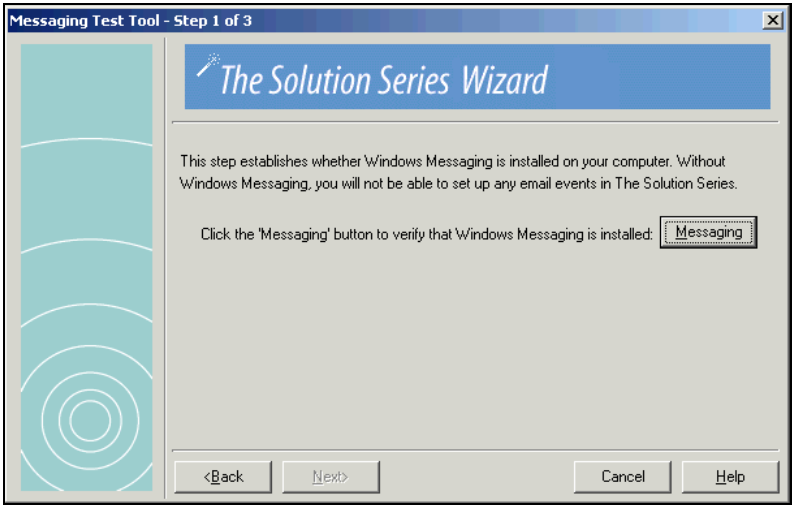
The Messaging Test Tool Wizard asks you to choose your mail client.



If you select Lotus Notes, the system prompts you for your Lotus Notes password. Enter the password.

3. Click Next

The Messaging button appears.

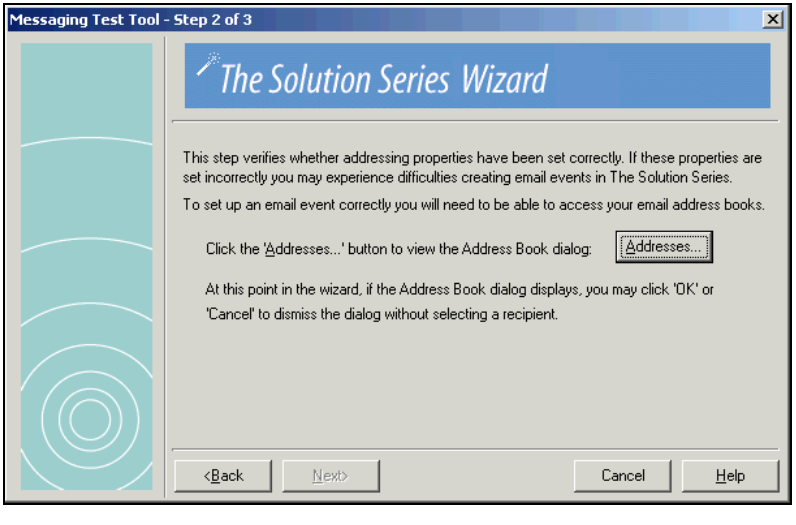


4. Click Messaging

Messaging is required to provide the system files used by your email package.

5. Click Next

The Addresses button appears.



6. Click Addresses

If you are using SMTP, the address book will not appear. You must skip to the next section.

If you are not using SMTP, you may get a prompt asking for your email password, depending on your email system and if you are already logged on to email. The dialog will list the email addresses in your system. Check them to verify that this is the correct listing.

7. Click OK

Clicking OK will return you to Step 2 of 3 in the Messaging Test Tool dialog.

8. Click Next

The dialog will now prompt you to send a test email. The Subject and Message fields are editable on this dialog. If you wish to change either of these, you may do so.

9. Click To

The Address Book dialog will appear, allowing you to select an email address.

10. Select an address

This is the address where the test email will be sent. It is suggested that you use either your own or another easily accessed address. This will make it easier to confirm that the email has been properly sent and received.

11. Click OK

This will accept the address selection.

12. Click Send

The Messaging Diagnostics Tools will now send the test email.

13. Click OK

This will close the dialog.

14. Click Next

The dialog will display all three steps, indicating whether or not they were completed successfully.

15. Click Finish

This will close the Messaging Test Tool.

Note: If you are using Lotus Notes, ensure that the Mail control panel applet has prompted for a Lotus Notes password and has been entered. The applet must be run as the event user set up at the beginning of these instructions.

When you are finished with this task, check the inbox of the address to which you sent the email to verify that the email was received.

Install ServletExec

If you do not already have ServletExec installed on your machine, follow the directions below to install it. If you already have ServletExec installed, it is recommended that you use the instance that serves the Web Client. It is NOT recommended that you use an instance that serves Interactive Workforce.

1. Insert your Solution Series CD ROM

2. Click 'Install ServletExec 5.0'

On the Installation CD instructions that display, click 'Install ServletExec.'

Note: If you are installing the media using Terminal Server, the "Getting Started" page will not display. Access the CD ROM drive to view the "Getting Started" page.

3. Click Next

Click the Next button to continue with the install

4. Select Setup Type

Select the option 'Install a ServletExec AS Instance' and click Next to continue.

5. Click Yes

Click the Yes button to accept the License Agreement

6. Click Next to continue

Click the Next button to continue with the install

7. Choose the destination folder

It is not required but recommended that you install the application in the default directory.

C:\Program Files\New Atlanta\ServletExec AS

8. Enter Servlet Exec Instance Name

Enter a name to uniquely identify the ServletExec Application Server instance and click Next to continue.

9. Select the setup type

Select 'Microsoft IIS or PWS' setup type and click Next to continue.

10. Click OK

Click OK on the dialog indicating that ISS admin will be shut down.

11. Choose destination location for servlet adapter

Enter the path for the location of the ServletExec adapter.dll and click Next to continue.

12. Enter the port number

Enter the port number you wish this ServletExec instance to use. You may choose any port, but accepting the suggested default port is recommended.

13. Click Next to confirm installation

Click Next at the confirmation dialog to complete the installation.

14. Enter username and password

Enter the username and password for this ServletExec instance to control access to the administration pages. This is the username and password that users will be prompted to enter when attempting to access the administration pages. Click the Next button to continue with the install

15. Click Yes

In the dialog box that asks if you want to install the ServletExec instance as an NT service, click Yes.

16. Click OK

Click OK on the information dialog that appears.

17. Click Finish

Click Finish to complete the installation of ServletExec.

Move the srvevents.war file

Move the Server Events 'SRVEVENT.war' file out of the installation directory. The destination location depends on which servlet engine you are using.

ServletExec

Move the file to the following filepath:

..\<ServletExec install dir>\<instance name>\webapps\default

(where '..\' is relative to where you have installed ServletExec and <instance name> is the instance name.)

Restart IIS and the servlet engine

Perform the following steps:

Stop and restart IIS

You must stop and restart the Internet Information Service (IIS) for these changes to take effect. This can be done from the Services panel. To access the Services panel, execute the following:

Start ► Settings ► Control Panel ► Administrative Tools ► Services

The Service dialog displays.

1. Right-click on the World Wide Web service name.

2. Choose Restart from the menu list.

3. Wait for services to shut down and restart automatically.
(When the dialog closes, restart is complete.)

To restart ServletExec, execute the following:

Start ► Settings ► Control Panel ► Administrative Tools ► Services

Start ServletExec

1. Find the instance of ServletExec that was previously modified for the Server Events.
2. Click the Start Service icon on the menu or right-click and select the Start option.

When you start ServletExec during the install, it will expand the .war file to create the files needed to run the Server Events Service. In ServletExec, the eCyborg Server Events file will be expanded into the following directory:

..\<ServletExec install dir><*Instancename*>\ServletExecData\default\srvevent\war

Important! Please be patient while the .war file expands.

Configure the Server Events environment

Before attempting the steps below, ensure you are logged on to the back end server machine with the user id and password you defined in Phase 2.

The service will work with environments in exactly the same way as the Admin Client--through the Connection Editor. The service will support many options including multiple environments, suspend, resume option, and so forth. The options are part of the Service Control Panel Application for events. The Control Panel applet also feeds environment details to the Web application (which is discussed later). This enables users to connect to the Web application for the viewing of any generated letters. To set up your environment, perform the following steps:

1. Launch the Connection Editor

To launch the Connection Editor, execute the following:

Start ► Programs ► Solution Series 52 Server Events ► Connection Editor

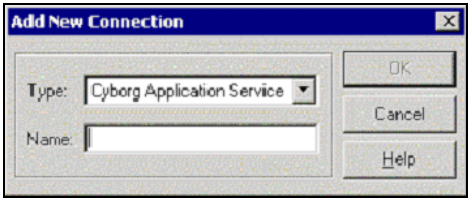
The Cyborg Connection Editor dialog opens.

2. Click New...

Click the New button to set up a new configuration.

3. Identify the name of the new connection

Leave Cyborg Application Service selected in the Type drop-down list box. Type the name of the connection you are creating in the Name text box.



4. Click OK

The Add Connection Properties dialog displays.

5. Enter the configuration details

Type the configuration details under Connection Properties on the Add Connection Properties dialog box.

The Solution Series installed on a Windows or UNIX platform:

Item	Description
Host (This is the Host name of The Solution Series Application Server.)	Identify the name of the server or use its IP address
Port	Identify the port address of the server. The port address of 9888 has been registered for the Cyborg Application Server (CAS). Be sure to use the same port set up on the server.
Environment	Identify the environment name (up to 8 characters) on the server. Examples are: `CYBPROD, CYBTEST,` and so on (see the environment name on your configuration worksheet).
Be Cyborg User	Accept the default entry of Yes to enable the Cyborg User.
Encryption	The default entry is No. If Yes is entered, the sign-on data sent between the client and the server will be encrypted.
Solution Series Application ID	The application name and ID number for The Solution Series application. This application ID is configured to 2.
FILE01 Application ID	The application name and ID number for the CYBIO application. This application ID is configured to 3.
Server Username	Leave this field blank.
Server Password	Leave this field blank.

6. Click OK

The connection properties are specified.

7. Click Close

The connection between the server and the client has been established.

Configure the Server Event Service

After defining the environments for the Connection Editor, configure the Event Service by following these steps. This must be done with the Administrative account you configured in Phase 2 of this installation. You can use the 'Run As' option to accomplish this.

1. Access the Cyborg Event Service dialog

To access the Cyborg Event Service dialog, execute the following:

Start ► Settings ► Control Panel ► Cyborg Event Service

Note: Remember to use the 'Run As' option.

2. Select Run the program as the following user

In the Run as Other User dialog box, select the radio button, 'Run the program as the following user'.

3. Enter the User name and password

Enter the user name and password you established in Phase 2 for the Administrative account.

4. Enter the Domain

Enter the name of the server or Domain where the account resides.

5. Click OK

The Cyborg Event Service dialog opens.

6. Enter the Event Data Root information

Click the General tab. In the Event Data Root text box, enter the path to the install directory for the Server Event files. You can also browse to files to select the path information.

7. Enter the Web Application Root information

In the Web Application Root text box, enter the path to the directory where the Web Application for letters files has been stored. This is the directory where the Server Event .war file was expanded:

..\<instance name>\servletexec data\default\srvevent\war

You can also browse to files to select the path information.

8. Enter the Username and Password

In the Service Owner portion of the dialog, enter the use rname and password you established for the new user in Phase 2.

9. Select the environment for the server events

Click the Environment Setup tab on the dialog. Select the environment you want to configure from the drop-down box.

Note: Environments are connections established in the Connection Editor.

10. Select the service module

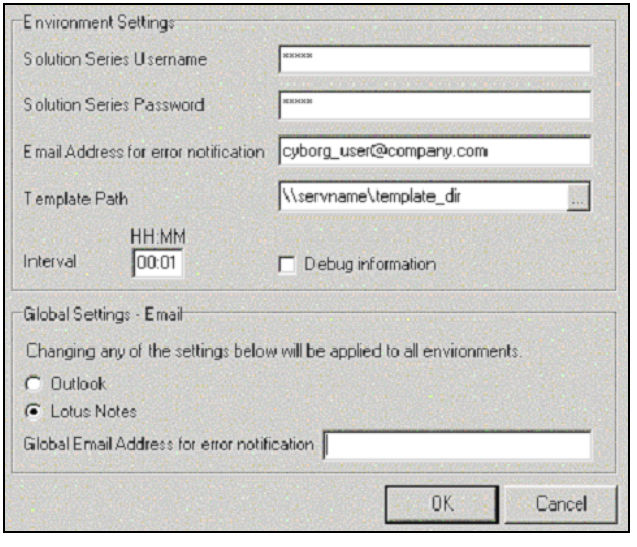
From the list of Available and active event service modules, check Server Events.

- If the check box is grey (disabled), the selected environment has not yet been set-up for the module.
- If the check box is checked, the environment is both set-up and enabled for the service to execute server-based events.
- If the check box is unchecked and not disabled, the environment is not active (suspended), and will not process server events.

11. Double-click the service module or click Setup

To continue configuring the eCyborg event service, double click Cyborg Server Events Service. The Setup dialog for the environment opens.

- The Suspend and Resume buttons close and open the connection to the selected environment, therefore, suspending and resuming server events for the chosen environment.
- The Remove button removes the associated environment from Server Events.



Enter the appropriate information in the dialog:

Field	Use
Solution Series Username	Needed to log on to the environment and process server events. This is normally done by the security officer.
Solution Series Password	Needed to log on to the environment and process server events. This is normally done by the security officer.
Email Address	Used to notify user of any errors that occur during the processing of server based events. An email is sent detailing the error. This option overrides the global email notification in the Global Settings area of the dialog. Verify using the Back End email client--access with the Messaging Test Tool.

Field	Use
Template Path	Path to a directory where event templates are held for email and letter generation, the same directory as set-up via the Solution Series SCOPTS form. Note: The Template Path you enter here should be the same path entered on the System Options form (SCOPTS). The same format here must be placed in the SCOPTS. All letter events, however, will use the directory regardless if the event is administrative client-based or server-based.
Interval	Setting to which server events will process any pending server events triggered via the Administrative Client, Web Client, Web Collaboration or Interactive Workforce. The format is 99:99 (hours and minutes). This should be indicated in minutes initially (00:05 for 5 minutes).
Debug information checkbox	Used to write to the CybDebug.bin file as used within the Administrative Client.
Global settings: Email	Selects which email system is to use.
Global Email Address	Address to send an email if an error occurred during the server event process. This option will be ignored if an environment email notification has been set.

12. Save the configuration information

Click OK to save the configuration information, or click Cancel if you do not want to save your changes.

Start the Server Event Service

1. Launch the eCyborg Server Event Service

To access the Cyborg Event Service, execute the following:

Start ► Settings ► Control Panel ► Administrative Tools ► Services

2. Select the service

Locate and double-click the 'Cyborg Event Service' entry in the Service option list.

3. Select the startup type

Select 'Automatic' as the startup type.

4. Click Start

The Service starts.

5. Click OK

Note: You must restart the Event Service if there are any environment properties changes or if any additional Server Event environments are added.

Configure the Web Client

Note: Perform this task only if you have the Web Client configured and running on your environment.

To ensure that the Web Client can generate Server Events, follow these steps:

1. Access the Connection Editor for the Web Client as the Administrator

Log on to the Web Client as the administrative user to access the Connection Editor.

2. Select the Web Client Connection

Select the Web Client connection you are using for Server Events, and click Modify.

3. Enter the path to the Event Server

In the Event Server text box, enter the path to the server on which Server Events was configured, for example:

http://<hostname>/srvevent

4. Click OK

Click OK to save your changes or Cancel if you do not want to save your changes.

Back End Directory Structure

Once installed, the Event Service creates several directories—or folders—on the back end server. The most important of these is the environments folder. The environments folder contains a folder for each configured environment.

The configured environment folder contains a Letters folder. Within the Letters folder, an encrypted user ID folder is created for each operator who triggers a server-based letter event. These user ID folders contain the back end letters.

The configured environment folder also contains the following files:

- FILECL32—this file handles event records from FILE51 (CBSVO on the Application Server) and the back end server service
- PendingEvents.stamp—this file contains the last event record successfully processed, enabling the service to maintain the cleanup of successfully actioned pending event records
- CybDebug.bin—this file functions the same way it does in the Admin Client, assisting in troubleshooting. This can be switched on for the environment through the control panel.

Event format and storage

Event Trigger Records

These records are stored on 80-Byte FILE01 records and cached locally using standard FILECL caching methods. CBSVO/B must be changed so MCL records are created for the new event records following any update to them.

Pending Trigger Records

These records reside on FILE51 records that contain form information needed to execute a server-based event. The Solution Series creates these records if the form has been updated and has server-based event records associated with the form. Pending triggers can also be in the form of server-based Checklist pending type records.

Checklist Trigger Records

These records are written by the EVTMGR CSL program to both the Admin and Web Client applications.

PART 3

Appendices

In This Section

APPENDIX A

Multiple installations of ServletExec

In This Appendix

Installing a new instance of ServletExec

ServletExec is included with your license for the eCyborg Web Client. Install a new instance of ServletExec to serve the Web Client software. The new instance allows you to have one of the instances down for maintenance without affecting the other.

Note: *For the initial installation, ServletExec may be installed in 'Unregistered' mode. While in Unregistered mode, ServletExec is limited to processing three (3) concurrent client requests. The supplied ServletExec license must be applied to allow for more than the 3 concurrent users.*

1. Click 'Install ServletExec 5.0'

On the Installation CD instructions that display, click 'Install ServletExec 5.0'

Note: *If you are installing the media using Terminal Server, the "Getting Started" page will not display. Access the CD ROM drive to view the "Getting Started" page.*

Click Next to continue.

2. Select Setup Type

Select the option 'Install a ServletExec AS Instance' and click Next to continue.

3. Click Yes to accept the License Agreement

4. Enter Servlet Exec Instance Name

Enter a name to uniquely identify the ServletExec Application Server instance, for example:

- WC52Test

Note: *This is a suggested name. If you want to use a different name, please be consistent.*

Click Next to continue.

5. Select setup type

Select 'Microsoft IIS or PWS' setup type.

Click Next to continue.

6. Enter the port number

Enter the port number you wish this ServletExec instance to use. It is recommended that you accept the default that is shown in the dialog.

Click Next to continue.

7. Click Next to confirm installation

Click Next at the confirmation dialog to complete the installation.

8. Enter Username and Password

Enter the username and password you wish this ServletExec instance to use to access the admin pages for this instance.

Click Next to continue.

9. Click Yes

In the dialog box that asks if you want to install the ServletExec instance as an NT service, click Yes.

10. Click OK

Click OK on the information dialog that appears.

11. Click Finish

Click Finish to complete the installation of ServletExec. You may view the README file.

APPENDIX B

eCyborg.war file replacement

In This Appendix

Replacing the eCyborg.war file

After the installation and configuration of the Web Client, you may want to replace the ecyborg.war file with the delivered alternative .war file. This alternative file omits the administrator pages.

Stop the instance of ServletExec for the Web Client

Perform the following procedures to stop the instance of ServletExec:

1. Access the Services applet

Make the following selections:

Start ► Settings ► Control Panel ► AdministrativeTools ► Services

The Services control panel appears.

2. Open the ServletExec Service window

While still in the Services dialog, right-click on the appropriate instance entry in the Services list box:

ServletExec-<Instance Name>

Select Properties to open the ServletExec Service window.

3. Shut down the instance of ServletExec

If the service is running, select the ServletExec instance, right-click, and select Stop.

Rename the eCyborg.war file

Navigate to the directory where you installed the eCyborg.war file:

..\<ServletExec install dir>\<instancename>\webapps\default

where <instancename> is the name of the ServletExec instance that you installed. Rename the existing eCyborg.war file to eCyborg_Admin.war.

Unzip the Web Server .war file

Unzip the eCyborg.war file to the Windows-based Web Application Server machine. Extract the following file:

- eCyborg.war

For ServletExec, the files should be copied into the following filepath:

..\<ServletExec install dir>\<instancename>\webapps\default

where <instancename> is the name of the ServletExec instance that you installed.

Restart and test ServletExec

Perform the following steps to restart and test ServletExec:

1. Access the Services applet

If the applet is not already open, access the Services control panel by making the following selections:

Start ► Settings ► Control Panel ► Administrative Tools ► Services

The Services control panel appears.

2. Restart the newly created instance of ServletExec

To restart the instance of ServletExec in the Services control panel, select the instance of ServletExec, right-click and select Start.

Hewitt

Installing and Configuring the Collaborative Platform 5.2

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Contents

CHAPTER 1

Introduction

In This Chapter

Installation overview

When installing the Collaborative Platform, you may be installing and configuring several machines.

In the following diagram, the Web application server is a Windows machine; The Solution Series application server is also a Windows machine, but it could be a UNIX, or a z/OS machine—wherever you have installed The Solution Series.

The Solution Series server

The core of the system is The Solution Series server: CYBIO, CBSVO, the System Control Repository (FILE01), and the Employee Database (FILE02). Along with these, the Cyborg Application Service (CAS) is installed. The administrative solutions (Payroll Administration, HR Administration, and so forth) reside on this server.

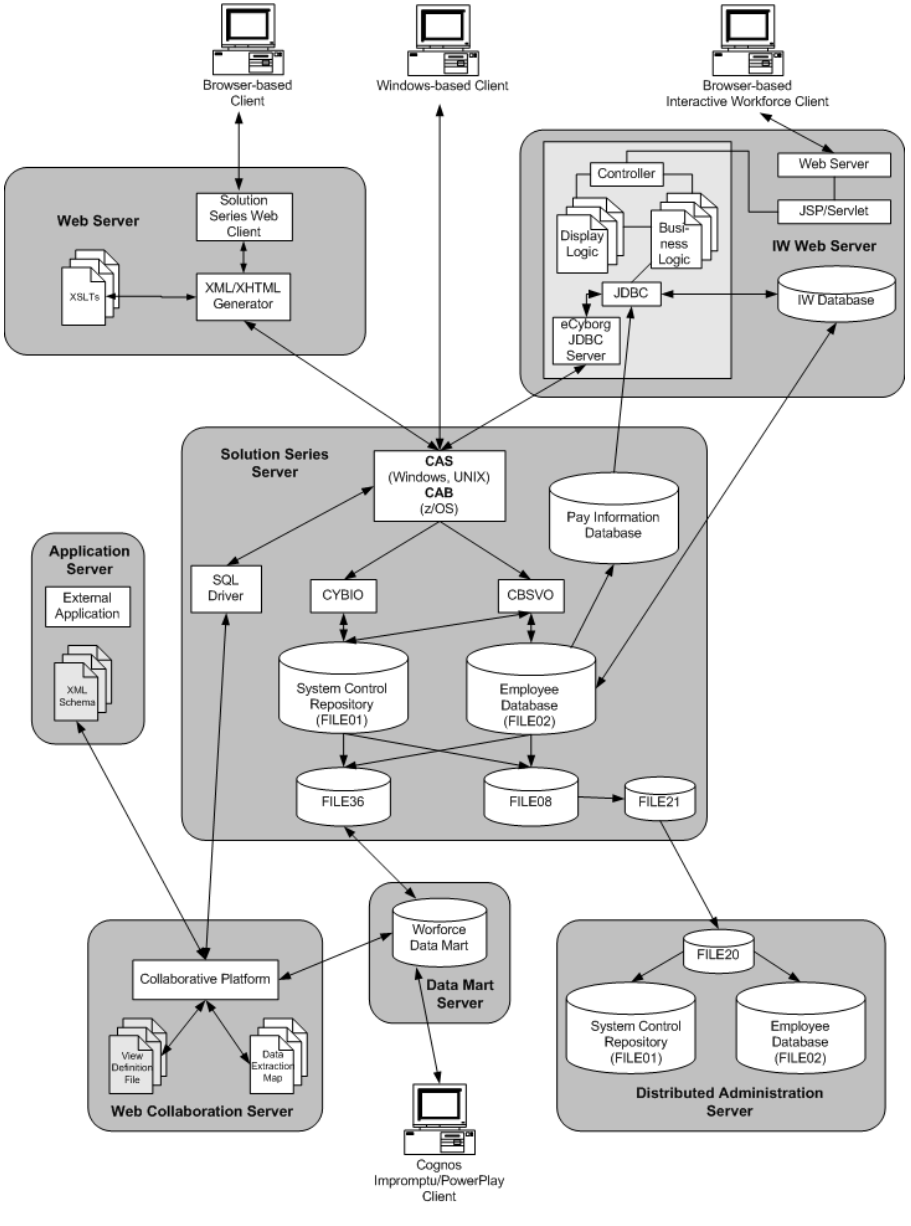
The Web application server

The software that generates the Collaborative Platform can be installed on a separate machine, referred to in this guide as the Web application server.

The Collaborative Platform is also installed on this server.

Note: *CAS must be installed on the Web application server for use by the Collaborative Platform if the Application Server is a UNIX or z/OS machine.*

Complete Product Installation Overview



CHAPTER 2

Installing the Collaborative Platform

In This Chapter

Introduction

This chapter provides detailed instructions for installing and configuring the components of the Collaborative Platform software on the Web Server.

This is a technical chapter aimed at system administrators.

If your application server is not a Windows server, you must install the Cyborg Application Service (CAS) on a Windows server to run the Collaborative Platform.

The Collaborative Platform SQL driver must be installed on the same Windows server on which you installed CAS.

Phase 1: Prepare for installation

This phase covers the following areas:

- Prerequisites
- Deliverables

Prerequisites

The software and hardware prerequisites for installing our products vary depending on your platform and the modules you purchased. Some third-party software must be purchased and installed before installing our products. To review hardware and software prerequisites for installing our products, follow these steps:

1. Access the Hewitt Cyborg home page

In the Address area at the top of your browser, type www.hewitt.com/cyborg and then press Enter.

2. Access the Customer Center

At the top of the home page click Customer Center Login.

3. Log in to the Customer Center

Click LOG IN, enter your User name and Password, and then either click OK or press Enter.

4. Select Product Updates

On the left pane of the page, click Product Updates.

5. Select prerequisites for the Product/Version

On the right side of the pane, click the product/version you want to view and their prerequisites.

Considerations

You should consider the following:

If you are using ServletExec as your servlet engine:

- **Running Web Collaboration with the Web Client or Interactive Workforce and ServletExec**

  If you have installed the Web client or Interactive Workforce on the same Web server as that on which you will be installing the Collaborative Platform, then you would have already installed ServletExec and will have a Java Runtime Environment (JRE).

  If you do not ServletExec installed on your Web server, you need to install it and create a ServletExec instance.

See also:

■ Installing ServletExec ***(on page 8)***

For instructions on installing ServletExec and creating a ServletExec instance.

- **Separate ServletExec instances**
  You could decide to have three ServletExec instances (one for Interactive Workforce, one for the Collaborative Platform, and one for the Web client). This will provide the capability of stopping the ServletExec instance used by one application (for example, Collaborative Platform) without affecting another application (for example, Interactive Workforce or the Web client).

  This is helpful if you need to perform maintenance on one application without affecting the other applications.

If you are using Jakarta Tomcat as your servlet engine:

- **Running Web Collaboration with the Web Client or Interactive Workforce and Tomcat**
  If you have installed the Web client or Interactive Workforce on the same Web server as that on which you will be installing the Collaborative Platform, then you would have already installed Tomcat and will have a Java Runtime Environment (JRE).

  If you do not have Tomcat installed on your Web server, you need to install it. You can get this from the Jakarta website.

The impact of upgrading

If you have previously installed the Collaborative Platform, some of the existing files will be replaced with files of the same name. If you have made any customizations to the Collaborative Platform, be sure to make a backup of them or move them to another directory so that they will not be overlaid by this installation.

Additionally, the country.properties file should be removed prior to upgrading.

Installing ServletExec

Two licenses for ServletExec are included in your license for Interactive Workforce. These licenses are for the Test and Production environments. The initial installation will be installed with an unlicensed version of ServletExec. As this environment is used just for testing the installation there is no need to allocate a license.

Note: For the initial installation, ServletExec may be installed in 'Unregistered' mode. While in Unregistered mode, ServletExec is limited to processing three (3) concurrent client requests. Use the two supplied ServletExec licenses for the Test and Production environments.

1. Click 'Install ServletExec'

On the Installation CD instructions that display, click 'Install ServletExec.'

Note: If you are installing the media using Terminal Server, the instruction page will not display. Access the CD ROM drive to view the instruction page.

2. Click Next to continue

3. Select Setup Type

Select the option 'Install a ServletExec AS Instance' and click Next to continue.

4. Click Yes to accept the License Agreement

5. Click Next to continue

6. Choose the destination folder

We suggest that you install the application in the default directory, although this is not necessary.

C:\Program Files\New Atlanta\ServletExec AS

7. Enter Servlet Exec Instance Name

Enter a name to uniquely identify the ServletExec Application Server instance for the Initial environment, for example:

Collab52

Click Next to continue.

8. Select setup type

Select 'Microsoft IIS or PWS' setup type and click Next to continue.

9. Click OK

Click Ok on the dialog indicating that ISS admin will be shut down.

10. Choose destination location for servlet adapter

Enter the path for the location of the ServletExec adapter.dll.

Click Next to continue.

11. Enter port number

Enter the port number you wish this ServletExec instance to use. You may choose any port, but accepting the suggested default port is recommended.

12. Click Next to confirm installation

Click Next at the confirmation dialog to complete the installation.

13. Enter username and password

Enter the username and password you wish this ServletExec instance to use to control access to the administration pages for this instance. This is the username and password that users will be prompted to enter when attempting to access the administration pages.

Click Next to continue.

14. Click Yes

In the dialog box that asks if you want to install the ServletExec instance as an NT service, click Yes.

15. Click OK

Click OK on the information dialog that appears.

16. Click Finish

Click Finish to complete the installation of ServletExec.

Deliverables

The following is included:

1	CD-ROM labeled 'Collaborative Platform 5.2'
1	Installing and Configuring the Collaborative Platform 5.2 (this guide)

Extract Collaborative Platform files

1. Insert the CD-ROM.

The Getting Started page automatically appears.

2. Scroll through the page to find the applicable links to the software you will be installing and configuring.

HTML entry	This chapter topic
Install the Cyborg Application Service(CAS)	Phase 2: Installing and configuring the Cyborg Application service (CAS) on a Windows Web application server
Install Collaborative Platform SQL driver	Phase 3: Installing and configuring the Collaborative Platform SQL driver
Install Collaborative Platform '.war' file	Phase 4: Installing and configuring the Collaborative Platform

Phase 2: Installing and configuring the Cyborg Application Service on a Windows server

This phase describes the installation of the Windows CAS. You should perform the tasks in this phase only if:

- Your application server **is not** running Windows.

or

- Your application server **is** running Windows, but you wish to isolate the Collaborative Platform.

Note: *If your installation is a non-Windows platform, the SQL driver must be installed on a Windows 2003 platform with the CAS.*

This phase has the following tasks:

- Install the CAS
- Add Cyborg port to services
- Create a cyborg user
- Set up services

Install the CAS

To install the CAS

1. Extract cybservd.exe (Service executable) and CybNTSvc.cpl (Cyborg Control Panel applet) from the CAS_52.zip file to the Microsoft Windows System root directory.
2. Type the following command from the Command prompt in the Microsoft Windows System directory:

```
cybservd -install
```

3. Press Enter.

To uninstall the CAS

If you want to uninstall the Cyborg Application Service, complete the steps below:

1. Open the Services dialog from the Control Panel (Administrative Tools).
2. Select the 'Cyborg Application Service' entry in the Service option list.
3. Click Stop.
4. Close the dialog.
5. Type the following command from the Command prompt in the Microsoft Windows System directory:

```
cybservd -remove
```

6. Press Enter.

Add Cyborg port to services

Edit the TCP/IP services file

Edit the TCP/IP services file (normally found in the Windows System directory — \DRIVERS\etc\ SERVICES) to add an entry of 'cyborg 9888 /tcp' (9888 is a registered TCP port #).

Note: *The Cyborg services address should be placed in its numerical order.*

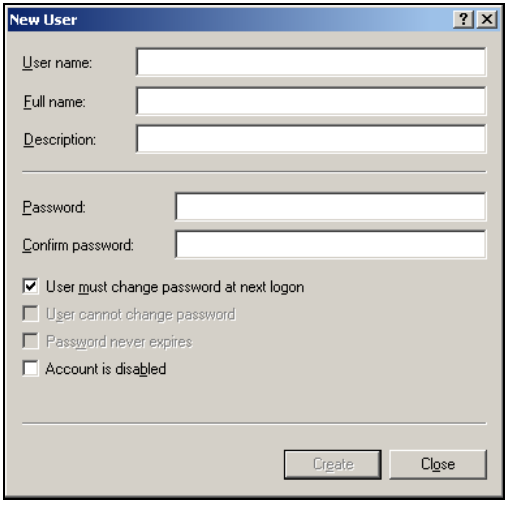
Create a Cyborg user

1. Open the Windows New User dialog

Open the Windows Control Panel and make the following selections:

Administrative Tools ▶ Computer Management ▶ Local Users and Groups Users

then right-click on Users and select New User.



2. Enter the username

Enter the username 'cyborg' and a description.

3. Clear the 'User Must Change Password at Next Logon' checkbox

4. Select the 'Password Never Expires' checkbox

5. Configure the cyborg user password

Note: *It is important to set up a password because it will be required later by the Cyborg Application Service (CAS). Note the use of upper and lower case for use in CAS later.*

6. Click Create

The new user is now established. When you exit the New User dialog box, the cyborg user appears in the Computer Management window.

Set up services for the environment

1. Open the Cyborg Service dialog

The Cyborg Service dialog is accessed from the Control Panel.

2. Type the password for the Cyborg user

Click the General tab and type the Cyborg user password configured in the Service Owner Password text box.

3. Select the Information check box

If not already selected, select the Information check box to allow you to view Cyborg Application Service Startup and Shutdown messages and other basic errors in the Event Viewer. By default, this check box is selected.

4. (Optional) Select the Debug check box

Select the Debug check box to enable more advanced diagnostic features of the Cyborg Application Service. This step is optional.

5. Add application

Select the Applications tab, and click New. Select Application... Complete the Cyborg Application Service - Add Application dialog as follows:

Field	Value
Id:	2
Description:	e.g. ST Application
Configuration DLL:	Leave blank
Enabled checkbox	Select

6. Click OK

7. Add new environment

Select the application created in Step 5. Click New and select Environment...

8. Enter Environment name

Type up to 8 characters in the Environment field (for example, 'Test'). Add a meaningful description in the Description field.

9. Enter the Working Directory

Type, or browse to, the Working Directory of the (Test) system (for example, 'C:\CYBORG52\RUNS\').

Use this same directory for the FILE01 application.

10. Enter the Program and Path

Type, or browse to, the full Program Path and program name of the batch file that starts up CBSVO (for example, 'C:\CYBORG52\RUNS\Online.bat').

For the FILE01 application, the full path and program name should be that of the batch file that starts up CYBIO (for example, 'C:\CYBORG52\RUNS\Cybio.bat')

11. Select Enabled

If not already selected, select the Enabled check box.

12. Click OK

13. Set up FILE01 environment

Repeat steps 5–12 for the FILE01 application using an application ID of '3' in Step 5 with a description for the FILE01 application (for example, 'FILE01 Application'), and in Step 7 highlight the FILE01 application.

14. Click Apply

15. Click OK

Phase 3: Installing and configuring the Collaborative Platform SQL driver

The Collaborative Platform SQL driver implements standard JDBC interfaces that allow The Solution Series forms to be accessed as database tables from Java code.

The Collaborative Platform SQL driver is made up of a Java component, an XML table definition file, and the run.bat file.

Note: A Collaborative Platform SQL driver application must be configured for each Solution Series environment that is to be used by the Collaborative Platform.

If your installation is a non-Windows platform, the SQL driver must be installed on a Windows 2003 platform with the CAS.

The SQL driver requires that the JDBC server application is running on the same computer as the Windows CAS.

This phase has the following tasks:

- Configure the CAS with the Collaborative Platform SQL driver
- Set up the Collaborative Platform SQL driver services
- Create a new environment
- Start the CAS

Note: The Collaborative Platform SQL driver is installed on the same server as the Windows CAS in **Phase 2: Installing and configuring the Cyborg Application Service on a Windows server** *(on page 11).*

Configure the CAS with the Collaborative Platform SQL driver

1. Install the Java runtime

If you do not already have a Java Runtime Environment (JRE) you need to install it now, making sure that java.exe is in the path.

Note: This can be verified from a command prompt by typing 'java -version'. If the java.exe is not in the path, then an error message will be displayed:
'java -version is not recognized as an internal or external command'

2. Create a JDBC directory

Create a directory, named JDBC, to receive the SQL files on the same server on which the Windows CAS has been installed. For example:

```
c:\apps\jdbc
```

3. Extract the files from the JDBC_v52.zip file

Extract the SQL Driver files into the directory created in step 2.

Set up the Collaborative Platform SQL driver services

1. Open the Cyborg Service dialog

The Cyborg Service dialog is accessed from the Control Panel.

2. Type the password for the Cyborg user

Click the General tab and type the Cyborg user password configured in in the Service Owner Password text box.

3. Select the Information check box

If not already selected, select the Information check box to allow you to view Cyborg Application Service Startup and Shutdown messages and other basic errors in the Event Viewer. By default, this check box is selected.

4. (Optional) Select the Debug check box

Select the Debug check box to enable more advanced diagnostic features of the Cyborg Application Service. This step is optional.

5. Add application

Select the Applications tab, and click New. Select Application... Complete the Cyborg NT Service - Add Application dialog as follows:

Field	Value
Id:	4
Description:	SQL Driver
Configuration DLL:	Leave blank
Enabled checkbox	Select

6. Click OK

Create a new environment

Note: This task must be repeated for each environment that is to be used by the Collaborative Platform.

1. Add new environment

Select the SQL Driver the application created in the previous task. Click New and select Environment...

2. Enter Environment name

Type up to 8 characters in the Environment field (for example, 'cyborg52'). Add a meaningful description in the Description field.

Note: The name used in the Environment field must be the name of The Solution Series environment that was created on the application server and the one to which you want to connect for use of the Collaborative Platform.

3. Enter the Working Directory

The working directory must point to the location that contains the jdbcserver.jar file and run.bat. This is the directory in which you extracted the JDBC52.zip file.

Type, or browse to, the Working Directory where the SQL files were extracted (for example, 'C:\Apps\jdbc').

4. Enter the Program and Path

Type, or browse to, the full Program Path and program name of the batch file, run.bat.

5. Select Enabled

If not already selected, select the Enabled check box.

6. Click OK

Start the CAS

Perform the following steps to start the CAS.

Note: Administrative rights are needed to modify the startup type of the CAS.

1. Open the Services dialog from the Control Panel:

Control Panel ► Administrative Tools ► Services

2. Select the 'Cyborg Application Service' entry in the Service option list
3. Select 'Automatic' as the startup type
4. Click Start
5. Click OK

Phase 4: Installing and configuring the Collaborative Platform

This phase has the following tasks:

- Unzip the Collaborative Platform .WAR file
- Add Collaborative Platform to ServletExec.properties file
- Start ServletExec
- Configure the Collaborative Platform
- Modify the environment properties with the application server connection properties
- Test the Web server

Unzip the Collaborative Platform .WAR file

Unzip the Collaborative Platform '.war' file to the Windows-based Web application server machine.

Extract the following file contained in the ecp_v52.zip:

- ecp.war

ServletExec

The file should be extracted into the following filepath:

..\ServletExec\<*instance_name*>\Webapps\default

(where '..\' is relative to where you have installed ServletExec and <*instance_name*> is the instance name.)

Tomcat

Extract the file into the following directory:

..\Tomcat\Webapps

(where '..\' is relative to where you have installed Tomcat.)

Add Collaborative Platform to ServletExec.properties

A 'context' is a name that is mapped to a Web application. The default context of the Collaborative Platform application is '/ecp'.

To install an application to a servlet container, the container and HTTP server must be notified the 'context' is available.

1. Add a context to the ServletExec.properties files

Add the context to the application parameter of the ServletExec.properties file, located in the following default location:

..\Inetpub\scripts
(where '..\' is relative to the IIS installation)

In the following example, <web-ecp> is the name of the ServletExec instance used for the Collaborative Platform.

```
servletexec.web-ecp.hosts=all
servletexec.web-ecp.applications=/eCyborg,/ecp,/eCyborghelp
servletexec.web-ecp.aliases=/servlet,.jsp
servletexec.web-ecp.instances=127.0.0.1:8888
```

2. Stop and restart IIS

You must stop and restart the Internet Information Service (IIS) for these changes to take effect. This can be done from the Services panel by making the following selections from the Control Panel:

Control Panel ► Administrative Tools ► Internet Services Manager

This will bring up the Service dialog for IIS.

1. Right-click on the Web server name.
2. Choose Restart IIS from the drop down list or on the Option menu, chose Restart Internet services.
3. Click OK.
4. Wait for services to shut down and restart automatically.
   (When the box closes, restart is complete.)

Start servlet engine

ServletExec:

To start ServletExec, open the Services dialog from the Control Panel:

Control Panel ► Administrative Tools ► Services

1. Find the instance of ServletExec that was previously created for the Collaborative Platform.
2. Click the Start Service icon on the menu or right-click and select the Start option.

When you start ServletExec during the install, it will expand the .war files to create the files needed for running the Collaborative Platform.

The Collaborative Platform files will be expanded into the following directory:

..\<*instance_name*>\ServletExecData\default\ecp

(where '..\' is relative to where you have installed ServletExec and <*instance_name*> is the instance name.)

Tomcat:

To start Tomcat, open the Services dialog from the Control Panel:

Control Panel ► Administrative Tools ► Services

1. Find Apache Tomcat in the listing.
2. Click the Start Service icon on the menu or right-click and select the Start option.

When you start Tomcat during the install, it will expand the .war files to create the files needed for running the Collaborative Platform.

The Collaborative Platform files will be expanded into the following directory:

..\Tomcat\Webapps\ecp\war

(where '..\' is relative to where you have installed Tomcat.)

Important! Please be patient while the war file expands. To make sure expansion is complete, you may check to see if the directories listed below have been created and populated.

WAR directory structure

When the WAR file is expanded a subdirectory called 'WEB-INF' is created that contains the following file and directories:

web.xml	The Web application deployment descriptor
classes	A directory that contains server-side classes, Servlets, and utility classes
lib	A directory that contains JAR archives of libraries used by the server-side classes
conf	A directory that contains the Collaborative Platform configuration files, the view definition file, a data extraction map and two XSLT stylesheets

Configure the Collaborative Platform

The Collaborative Platform uses the SQL driver to access Solution Series data.

Each data extraction map contains the database URL that identifies the Solution Series environment from which data is retrieved.

The WAR file contains a sample data extraction map named PersonMap.xml (in the WEB-INF\conf directory) in which the database URL points to an environment named 'Default'.

This URL should be modified so that it correctly identifies the environment you wish to use.

The data extraction map is read each time the Collaborative Platform receives a request.

Any changes made to an extraction map are effective immediately after the file is saved. There is no need to restart the Collaborative Platform after editing the file.

1. Locate and edit PersonMap.xml

If the SQL driver is not running on the same machine as the Collaborative Platform, you will need to replace 'localhost' with the host name or IP address of a machine on which the SQL driver has been installed.

The following XML fragment is taken from the sample data extraction map, PersonMap.xml.

```
<database url="jdbc:cyborg:localhost/Default"
 driver="com.cyborg.jdbc.client.XmlDriver" >
</database>
```

2. Modify the environment name

The environment name is delivered as 'Default' and should also be modified so that it corresponds to the name of a valid Solution Series environment as defined in Phase 3: Installing and configuring the Collaborative Platform SQL driver.

Modify the environment properties with the application server connection properties

Note: Perform these steps on the server where the Collaborative Platform SQL driver is installed.

The properties file contains information needed for the SQL driver to connect to the Solution Series environment.

The JDBC directory contains two files - default.properties and ibmdefault.properties.

1. Copy the default.properties or ibmdefault.properties file

If your application server is a Windows or UNIX platform, copy the Default.properties file to a file called, for example, 'cyborg52.properties.'

If you are using a z/OS server, copy the ibmdefault.properties file to a new environments file, for example, 'cyborg52.properties'.

Note: The name must match The Solution Series environment name as defined in the SQL driver. It must be the same as the URL.

The environment name must match the one set up earlier in the task **Set up services for the environment (Windows server)** *(see "Set up services for the environment" on page 13).*

2. Edit the new properties file

Edit the new copy of the properties file created in Step 1 to add the information in the following table.

Windows and UNIX

Edit the variables in the file created in Step 1 as per environment requirements. The following parameters must be defined.

Record your parameters in the 'Value' column below:

Parameter	Definition	Example	Value
Host	Hostname of application server	HOSTNAME	
Port	Port for CAS connections of the application server	9888	

For example:

```
connector=com.cyborg.comms.tcpip.CasConnector
Host=HOSTNAME
Port=9888
```


z/OS

The following parameters in the file created in Step 1 must be defined.

Record your parameter in the 'Value' column below:

Parameter	Definition	Example	Value
IOR =	Fully qualified path of file containing generic factory object reference	c:\\genfac.ior or c:\\apps\\genfac.ior *Note: Two back slashes are required for defining the directory structure.*	

For example:

```
IOR=c:\\apps\\genfac.ior
```

Test the Web server

Included in the ecp WAR file is a simple client application that can be used to verify correct installation of the Collaborative Platform Web Services application. The client application can be accessed using an HTML page that is also included in the WAR file.

1. Access the Collaborative Platform Web service

To run the client application, open a browser and access the following URL:

```
http://hostname/ecp/read.htm
```

Replace 'hostname' with the name or IP address of the machine on which the Collaborative Platform is installed.

The default TCP/IP port used by HTTP servers is 80. If your HTTP server is not configured to accept requests on the default port, you must include the port number in the URL.

For example:

```
http://host:8080/ecp/read.htm
```

2. Press Enter

If the application has been installed correctly, your Web browser will display an HTML form, the fields of which will contain default values.

3. Review your environment details

Before submitting the form, ensure that the user name, password, company number, and employee number fields contain values that are valid for your Solution Series environment.

4. Submit the form

Click Submit.

If you receive a response similar to the following, the Collaborative Platform Web service has been correctly installed.